

CLAIMS

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1 Claim 1. A method of identity vectoring using chained mapping records, the
2 method including:

3 comparing a distinguished name or a partial distinguished name with a plurality of
4 mapping records;

5 replacing a variable from a first matching mapping record with an environmental
6 factor to create a first search criteria, the first matching mapping record indicating the
7 distinguished name or the partial distinguished name; and

8 comparing the first search criteria with the plurality of mapping records.

1 Claim 2. The method of claim 1, further including:

2 generating a security context control block using a user identification from a second
3 matching mapping record, the second matching mapping record indicating the first search
4 criteria.

1 Claim 3. The method of claim 1, further including:

2 replacing a variable from a second matching mapping record with an environmental
3 factor to create a second search criteria, the second matching mapping record indicating the
4 first search criteria.

1 Claim 4. The method of claim 3, further including:
2 generating a security context control block using a user identification from a third
3 matching mapping record, the third matching mapping record indicating the second search
4 criteria.

1 Claim 5. The method of claim 1, further including:
2 eliminating a portion of an X.500 distinguished name to create the partial
3 distinguished name used in said comparing the partial distinguished name with the plurality
4 of mapping records.

1 Claim 6. The method of claim 1, further including:
2 generating a security context control block using a user identification from the first
3 matching mapping record if the first matching mapping record includes the user
4 identification.

1 Claim 7. The method of claim 1, further including:
2 providing an X.500 distinguished name for use as the distinguished name used in said
3 comparing the distinguished name with the plurality of mapping records.

1 Claim 8. The method of claim 1, further including:
2 providing a system status for use as the environmental factor for said replacing the
3 variable.

1 Claim 9. A system for identity mapping using chained mapping records, the
2 system including:
3 a digital certificate including a distinguished name;
4 a distinguished name mapping record indicative of at least a portion of said
5 distinguished name, said distinguished name mapping record including a first data field, said
6 first data field including a first variable indicative of a first environmental factor;
7 a first criteria mapping record corresponding to a first state of said first environmental
8 factor, said first criteria mapping record including a second data field, said second data field
9 including a first user identity; and
10 a mapping process configured to receive said digital certificate, wherein said mapping
11 process generates a security context control block using said first user identity in response
12 to said first state of said first environmental factor.

1 Claim 10. The system of claim 9, further including:

2 a second criteria mapping record corresponding to a second state of said first
3 environmental factor, said second criteria mapping record including a third data field, said
4 third data field including a second user identity; and

5 wherein said mapping process is further configured to generate a security context control
6 block using said second user identity in response to said second state of said first
7 environmental factor.

1 Claim 11. The system of claim 9, further including:

2 a second criteria mapping record corresponding to a second state of said first
3 environmental factor, said second criteria mapping record including a third data field, said
4 third data field including a second variable indicative of a second environmental factor;

5 a third criteria mapping record corresponding to said second environmental factor,
6 said third criteria mapping record including a fourth data field, said fourth data field
7 including a second user identity; and

8 wherein said mapping process is further configured to generate a security context
9 control block using said second user identity in response to said second state of said first
10 environmental factor and said third environmental factor.

1 Claim 12. The system of claim 9, wherein said distinguished name is an X.500
2 distinguished name.

1 Claim 13. The system of claim 10, wherein said first user identity represents a
2 first level of network authorization, and said second user identity represents a second level
3 of network authorization.

1 Claim 14. The system of claim 9, wherein said first environmental factor is a
2 network status at the time said digital certificate is received by said mapping process.

1 Claim 15. The system of claim 9, wherein said first environmental factor is an
2 application status at the time said digital certificate is received by said mapping process.

1 Claim 16. The system of claim 9, wherein said first environmental factor is
2 included in said digital certificate.

1 Claim 17. A storage medium encoded with machine-readable computer program
2 code for mapping name space identities to digital certificates, the storage medium including
3 instructions for causing a computer to implement a method comprising:

4 comparing a distinguished name or a partial distinguished name with a plurality of
5 mapping records;

6 replacing a variable from a first matching mapping record with an environmental
7 factor to create a first search criteria, the first matching mapping record indicating the
8 distinguished name or the partial distinguished name; and

9 comparing the first search criteria with the plurality of mapping records.

1 Claim 18. The storage medium of claim 17 further comprising instructions for
2 causing a computer to implement:

3 generating a security context control block using a user identification from a second
4 matching mapping record, the second matching mapping record indicating the first search
5 criteria.

1 Claim 19. The storage medium of claim 17 further comprising instructions for
2 causing a computer to implement:

3 replacing a variable from a second matching mapping record with an environmental
4 factor to create a second search criteria, the second matching mapping record indicating the
5 first search criteria.

1 Claim 20. The storage medium of claim 19 further comprising instructions for
2 causing a computer to implement:

3 generating a security context control block using a user identification from a third
4 matching mapping record, the third matching mapping record indicating the second search
5 criteria.

1 Claim 21. The storage medium of claim 17 further comprising instructions for
2 causing a computer to implement:

3 eliminating a portion of an X.500 distinguished name to create the partial
4 distinguished name used in said comparing the partial distinguished name with the plurality
5 of mapping records.

1 Claim 22. The storage medium of claim 17 further comprising instructions for
2 causing a computer to implement:

3 generating a security context control block using a user identification from the first
4 matching mapping record if the first matching mapping record includes the user
5 identification.

1 Claim 23. The storage medium of claim 17 further comprising instructions for
2 causing a computer to implement:

3 providing an X.500 distinguished name for use as the distinguished name used in said
4 comparing the distinguished name with the plurality of mapping records.

1 Claim 24. The storage medium of claim 17 further comprising instructions for
2 causing a computer to implement:

3 providing a system status for use as the environmental factor for said replacing the
4 variable.